

1. EVEN OR ODD

The screenshot shows the Eclipse IDE interface with a dark theme. The left sidebar displays a project structure with several Java files and folders. The main editor window contains the following Java code:

```
1 package odd_even;
2
3 import java.util.Scanner;
4
5 public class odd_even {
6     public static void main(String[] args) {
7         Scanner data=new Scanner(System.in);
8         System.out.print("Enter the number: ");
9         int num=data.nextInt();
10
11        if(num%2 == 0) {
12            System.out.print("Even");
13        }
14        else {
15            System.out.print("Odd");
16        }
17    }
18 }
19
```

The console tab at the bottom shows the output of the program:

```
<terminated> odd_even [Java Application] C:\Program Files\Java\jdk-22\bin\javaw.exe (23 Jul 2024, 9:05:58 pm – 9:06:02)
Enter the number: 5
Odd
```

The system tray at the bottom right shows various icons and status information.

2. MULTIPLE OF 5

The screenshot shows the Eclipse IDE interface with the following details:

- Title Bar:** eclipse-workspace - Multiple_of_5/src/Multiple_of_5/Multiple_of_5.java - Eclipse IDE
- Toolbar:** Standard Eclipse toolbar with various icons for file operations, search, and project management.
- Left Sidebar (Project Explorer):** Shows a tree view of Java projects and source files. Projects include "print_first_5", "End_with_3", "Multiple_of_5", "End_with_one", "end_with_zero", and "even_odd".
- Central Editor Area:** Displays the Java code for the `Multiple_of_5` class.

```
1 package Multiple_of_5;
2
3 import java.util.Scanner;
4
5 public class Multiple_of_5 {
6     public static void main(String[] args) {
7         Scanner data=new Scanner(System.in);
8         System.out.print("Enter the number: ");
9         int num=data.nextInt();
10        if(num%5==0) {
11            System.out.print("YES");
12        }
13        else {
14            System.out.print("NO");
15        }
16    }
17 }
```
- Bottom Console Tab:** Shows the output of the program execution:

```
<terminated> Multiple_of_5 [Java Application] C:\Program Files\Java\jdk-22\bin\javaw.exe (23 Jul 2024, 9:42:14 pm – 9:42:14 pm)
Enter the number: 4
NO
```
- System Tray:** Shows system icons for battery, signal, volume, and date/time (23-07-2024, 21:42).

3. MULTIPLE OF 10

The screenshot shows the Eclipse IDE interface with the following details:

- Title Bar:** eclipse-workspace - Multiple_Of_10/src/Multiple_Of_10/Multiple_Of_10.java - Eclipse IDE
- Menu Bar:** File, Edit, Source, Refactor, Source, Navigate, Search, Project, Run, Window, Help
- Toolbar:** Standard Eclipse toolbar icons.
- Left Sidebar (Project Explorer):** Shows several Java projects:
 - End_with_3.java
 - Multltiple_of_10.java
 - package-info.java
 - Multiple_Of_10.java
 - Pack...
 - src (containing End_with_3.java, end_with_zero.java, even_odd.java, and Multltiple_of_10.java)
 - end_with_zero.java
 - even_odd.java
 - code_9.java
 - odd_even.java
- Central Area (Code Editor):** Displays the Java code for `Multiple_Of_10.java`.

```
1 package Multiple_Of_10;
2
3 import java.util.Scanner;
4
5 public class Multiple_Of_10 {
6     public static void main(String[] args) {
7         Scanner data=new Scanner(System.in);
8         System.out.print("Enter the number: ");
9         int num=data.nextInt();
10        if(num%10==0) {
11            System.out.print("YES");
12        }
13        else {
14            System.out.print("NO");
15        }
16    }
17 }
18
```
- Bottom Area (Console):** Shows the output of the program.

```
<terminated> Multiple_Of_10 [Java Application] C:\Program Files\Java\jdk-22\bin\javaw.exe (23 Jul 2024, 9:43:42 pm - 9:43:42 pm)
Enter the number: 10
YES
```

4. MULTIPLE OF 5 AND 3

The screenshot shows the Eclipse IDE interface with two separate runs of a Java application. Both runs show the same code and output.

Code:

```
4 public class Multiple_OF_5_and_3 {
5     public static void main(String[]args) {
6         Scanner data=new Scanner(System.in);
7         System.out.print("Enter the number: ");
8         int num=data.nextInt();
9         if(num%5==0) {
10             System.out.println("YES");
11             System.out.print("Multiple of 5");
12         } else if(num%3==0) {
13             System.out.println("YES");
14             System.out.print("Multiple of 3");
15         } else {
16             System.out.print("NO");
17         }
18     }
19 }
20 }
```

Output (Run 1):

```
Enter the number: 55
YES
Multiple of 5
```

Output (Run 2):

```
Enter the number: 33
YES
Multiple of 3
```

The Java application prompts the user to enter a number. In both cases, the user enters 55 and 33 respectively. The program then checks if the number is divisible by 5 or 3. Since 55 is divisible by 5, it prints "YES" and "Multiple of 5". Similarly, since 33 is divisible by 3, it prints "YES" and "Multiple of 3".

5. MULTIPLE OF 5,3,7

The screenshot shows the Eclipse IDE interface with a Java project named "Multiple_Of_5_and_3". The code in the main method checks if a user-entered number is a multiple of 5, 3, or 7. If it is a multiple of any of these numbers, it prints "YES" and the respective message ("Multiple of 5", "Multiple of 3", or "Multiple of 7"). If it is not a multiple of any of these numbers, it prints "NO". The Java code is as follows:

```
1 package Multiple_Of_5_and_3;
2
3 import java.util.Scanner;
4
5 public class Multiple_Of_5_and_3 {
6     public static void main(String[] args) {
7         Scanner data=new Scanner(System.in);
8         System.out.print("Enter the number: ");
9         int num=data.nextInt();
10        if(num%5==0) {
11            System.out.println("YES");
12            System.out.print("Multiple of 5");
13        }
14        else if(num%3==0) {
15            System.out.println("YES");
16            System.out.print("Multiple of 3");
17        }
18        else if(num%7==0) {
19            System.out.println("YES");
20            System.out.print("Multiple of 7");
21        }
22        else {
23            System.out.print("NO");
24        }
25    }
26 }
```

The "Console" tab shows the output of running the program with the input "77". The output is:

```
Enter the number: 77
YES
Multiple of 7
```

The system tray at the bottom right shows the date and time as 23-07-2024 21:53.

6. TWO DIGIT NUMBER OR NOT

The image shows two screenshots of the Eclipse IDE interface, each displaying a Java code editor and a terminal window.

Screenshot 1: The code in the editor is as follows:

```
1 package Two_Digit_Number_or_not;
2
3 import java.util.Scanner;
4
5 public class Two_Digit_Number_or_not {
6     public static void main(String[] args) {
7         Scanner data=new Scanner(System.in);
8         System.out.print("Enter the number: ");
9         int num=data.nextInt();
10        if(num>9) {
11            System.out.println("Two Digit Number");
12        }
13        else {
14            System.out.print("Single Digit Number");
15        }
16    }
17}
18
```

The terminal window shows the output for the input "12":

```
<terminated> Two_Digit_Number_or_not [Java Application] C:\Program Files\Java\jdk-22\bin\javaw.exe (23 Jul 2024)
Enter the number: 12
Two Digit Number
```

Screenshot 2: The code in the editor is as follows:

```
1 package Two_Digit_Number_or_not;
2
3 import java.util.Scanner;
4
5 public class Two_Digit_Number_or_not {
6     public static void main(String[] args) {
7         Scanner data=new Scanner(System.in);
8         System.out.print("Enter the number: ");
9         int num=data.nextInt();
10        if(num>9) {
11            System.out.println("Two Digit Number");
12        }
13        else {
14            System.out.print("Single Digit Number");
15        }
16    }
17}
18
```

The terminal window shows the output for the input "5":

```
<terminated> Two_Digit_Number_or_not [Java Application] C:\Program Files\Java\jdk-22\bin\javaw.exe (23 Jul 2024)
Enter the number: 5
Single Digit Number
```

7. THREE DIGIT NUMBER OR NOT

The screenshot shows the Eclipse IDE interface with the following details:

- Title Bar:** eclipse-workspace - Three_Digit_number_or_not/src/Three_Digit_number_or_not/Three_Digit_number_or_not.java
- Menu Bar:** File, Edit, Source, Refactor, Source, Navigate, Search, Project, Run, Window, Help
- Toolbars:** Standard toolbar with various icons.
- Left Sidebar (Outline View):** Shows the project structure with packages like Multiple_Of_1, Multiple_Of_2, print_first, print_last, and Three_Digit_. Each package has a JRE System and src folder.
- Central Editor Area:** Displays the Java code for `Three_Digit_number_or_not.java`. The code uses `Scanner` to read a number from the user and prints "Three Digit Number" if it's greater than 99, "Two Digit Number" if it's between 10 and 99, and "Single Digit Number" if it's less than 10.

```
1 package Three_Digit_number_or_not;
2
3 import java.util.Scanner;
4
5 public class Three_Digit_number_or_not {
6     public static void main(String[] args) {
7         Scanner data=new Scanner(System.in);
8         System.out.print("Enter the number: ");
9         int num=data.nextInt();
10        if(num>99) {
11            System.out.println("Three Digit Number");
12        }
13        else if(num>9) {
14            System.out.println("Two Digit Number");
15        }
16        else {
17            System.out.print("Single Digit Number");
18        }
19    }
20 }
```

- Bottom Console Area:** Shows the terminal output of the application running. It prompts the user to enter a number (100), and then outputs "Three Digit Number".
- Bottom Taskbar:** Shows system icons for browser, file explorer, word processor, Instagram, Google Chrome, and WhatsApp. It also displays system status like ENG IN, battery level, and the date/time (23-07-2024, 22:00).

8. THREE DIGIT NUMBER AND A MULTIPLE OF 10

The screenshot shows the Eclipse IDE interface with the following details:

- Project Explorer:** Shows several Java projects: Two_Digit_N..., Three_Digit..., package-info..., Three_digit..., modul, Multiple_of_..., JRE System, src, Multip..., Mul..., pac..., modul, Multiple_Of_..., JRE System, src, Multip..., Mul..., pac..., modul, print_first, JRE System, src, print_f..., pac..., prir..., modul, print_last, JRE System, src, print_l..., pac..., prir..., modul, Three_digit..., JRE System, src, Three..., pac..., Thri... . The file Three_digit_number_and_a_Multiple_of_10.java is selected.
- Code Editor:** Displays the Java code for the main method:

```
1 package Three_digit_number_and_a_Multiple_of_10;
2
3 import java.util.Scanner;
4
5 public class Three_digit_number_and_a_Multiple_of_10 {
6     public static void main(String[] args) {
7         Scanner data=new Scanner(System.in);
8         System.out.print("Enter the number: ");
9         int num=data.nextInt();
10        if(num>99 && num%10==0) {
11            System.out.println("YES");
12        }
13        else {
14            System.out.print("NO");
15        }
16    }
17
18
19}
```
- Console:** Shows the output of the program:

```
<terminated> Three_digit_number_and_a_Multiple_of_10 [Java Application] C:\Program Files\Java\jdk-22\bin\javaw.exe
Enter the number: 100
YES
```
- System Tray:** Shows icons for various applications like File Explorer, Microsoft Word, Instagram, Google Chrome, and WhatsApp.
- System Status:** Shows language (ENG IN), battery level, signal strength, and the date/time (23-07-2024).

9. THREE DIGIT NUMBER AND MULTIPLE OF 2, 5 AND 10

The screenshot shows the Eclipse IDE interface with the following details:

- Project Explorer:** Shows a package named "three_digit_number_and_multiple_of_2_5_10" containing several source files like "Multiple_Of_2", "Multiple_Of_5", "Multiple_Of_10", "print_first", "print_last", and "Three_Digit_Number".
- Code Editor:** Displays the Java code for the "Three_Digit_Number" class. The code reads a three-digit number from the user and checks if it is divisible by 2, 5, and 10. If so, it prints "YES"; otherwise, it prints "NO".
- Console:** Shows the output of the program when run with the input "140", which results in the output "YES".
- System Tray:** Shows various system icons and status information.

```
1 package three_digit_number_and_multiple_of_2_5_10;
2
3 import java.util.Scanner;
4
5 public class three_digit_number_and_multiple_of_2_5_10 {
6     public static void main(String[] args) {
7         Scanner data=new Scanner(System.in);
8         System.out.print("Enter the number: ");
9         int num=data.nextInt();
10        if(num>99 && num%10==0 && num%5==0 && num%2==0) {
11            System.out.println("YES");
12        }
13        else {
14            System.out.print("NO");
15        }
16    }
17 }
18
```

Console Output:
<terminated> three_digit_number_and_multiple_of_2_5_10 [Java Application] C:\Program Files\Java\jdk-22\bin\javaw
Enter the number: 140
YES

10. NUMBER ENDS WITH ZERO OR NOT

The screenshot shows two instances of the Eclipse IDE interface. Both instances display the same Java code in the editor tab:

```
package end_with_zero;
import java.util.Scanner;
public class end_with_zero {
    public static void main(String[]args) {
        Scanner data=new Scanner(System.in);
        System.out.print("Enter the number: ");
        int num=data.nextInt();
        if(num%10 == 0) {
            System.out.print("it is zero");
        }
        else {
            System.out.print("not a zero");
        }
    }
}
```

In the top instance, the console tab shows the output for the input "10":

```
Enter the number: 10
it is zero
```

In the bottom instance, the console tab shows the output for the input "5":

```
Enter the number: 5
not a zero
```

The Eclipse interface includes a toolbar, a package explorer on the left, and various tabs like Problems, Javadoc, Declaration, and Console at the bottom.